

# SPELVault

Modular precast detention system



**spelstormwater**  
joy in water

[spel.com.au](http://spel.com.au)



# APPLICATIONS

- Residential
- Commercial
- Industrial
- Retail sites
- Subdivisions
- Urban infrastructure

# FEATURES

A modular precast detention system that has the proven strength & durability of concrete, is simple & fast to install, and easily accessible for maintenance.

The SPEL Vault can be arranged in a modular configuration to achieve small to very large onsite detention (OSD) requirements with flexibility in footprint design.

It is a robust solution for SW detention typically installed under carparks in commercial premises, or the common driveways in multi-unit developments. The SPEL Vault is selected for its easy access for maintenance, strong traffic rating, simple installation protocol and ability for large volumes to be installed in a single day and truck trafficable immediately.

- Flexibility in footprint design for optimum layouts
- Flexible heights to suit site levels
- Truck trafficable. Delivered to site cured to 50MPa. The tanks can be installed, backfilled and trafficable immediately, maintaining sites accessibility.
- Modules do not rely on stone backfill for stormwater storage or support, so there are smaller excavations and less spoil to dispose of compared to other systems.
- Units are delivered to site to meet clients cranes and are generally installed immediately. This is no onsite storage of modules required so on-site space is optimised.
- SPEL Filter cartridges can be design into this system so water quality outcomes can be achieved without additional separate tanks.



# COMPARISON

## Stormwater Detention Tanks Comparison: SPEL Vault/Megavault Vs Block & Slab



OSD SYSTEMS	SPEL VAULT / MEGAVault	BLOCK & SLAB
<b>STRUCTURALLY SOUND</b>	Yes. Engineer Certified. Truck trafficable. Form 15 provided at no cost.	Yes. Engineering design may still have to be completed and may be an additional cost with time implications.
<b>SPEED OF INSTALL FOR THE BUILDER &amp; DEVELOPER</b>	Quick. 100-150kL achievable in a day. Only really needs 1-2 persons to install not including the crane operator and dogman.	Slower. As the build involves more trades (base concreter, blockworker, bondek installation, tanking, FSL pour) there is a greater chance of blow-outs on the build schedule. The increased construction time compared to a fast precast install also increases the exposure to delays from poor weather.
<b>ONSITE EFFICIENCY GAINS</b>	As the tank is manufactured off-site in a quick to install modular system, onsite efficiencies are gained as there is not an open excavation for extended periods and project management of multiple trades over an extended period is not required.	No benefit. Project management of multiple trades over an extended period is required. Increased safety risk management and increased risk to delays to construction. Spacial impacts of a large excavation also impeded productivity negatively especially critical on tight sites.
<b>SAFETY</b>	Less trades, less people involved onsite with the build and less time with an open excavation. Capacities up to 240kL have the potential to be achieved in a day = increased safety benefits.	Increased time with an open excavation with more sub-contractors involved, more time on safety plans and inductions and increased project manager involvement and supervision required. Reo bars sticking up. Increased construction waste to deal with. Greater risk exposure and increased cost to manage.
<b>ENVIRONMENTAL IMPACT</b>	Minimal construction waste onsite. Decreased open excavation time, decreased risk of silt release.	Increased construction waste onsite to deal with. Pallets from blocks. Pallets from steel. Increased risk of silt release with extended open excavation times. Concrete truck wash-outs.
<b>QUALITY</b>	Tanks constructed in a factory. Quality assured practices ensure tanks delivered to site meet rigorous quality standards.	Tanks constructed onsite = increased risk of defects and quality issues.

# SPELVault

## Modular precast detention system

<p><b>NSW HEAD OFFICE</b> 100 Silverwater Rd, Silverwater NSW 2128 PO Box 7138, Silverwater NSW 1811 P: +61 2 8705 0255 P: 1300 773 500 E: nsw.sales@spel.com.au</p>	<p><b>QLD MAIN OFFICE</b> 130 Sandstone Pl, Parkinson QLD 4115 P: +61 7 3271 6960 P: 1300 773 500   E: qld.sales@spel.com.au</p> <p><b>QLD SUNSHINE COAST BRANCH</b> 19-27 Fred Chaplin Circuit, Bells Creek, QLD 4551 P: 1300 773 500   E: qld.sales@spel.com.au</p>	<p><b>VIC &amp; TAS OFFICE</b> 897 Wellington Rd Rowville VIC 3178 P: +61 3 5274 1336 P: 1800 810 139   E: sales@spel.com.au</p> <p><b>VIC GEELONG BRANCH</b> 70 Technology Close, Corio, P: +61 3 5274 1336 P: 1800 810 139   E: sales@spel.com.au</p>
<p><b>SA OFFICE</b> 9 Hampden Road, Mount Barker SA 5251 P: 1300 773 500 E: sales@spel.com.au</p>	<p><b>WA OFFICE</b> 2 Modal Crescent Canning Vale WA 6155 P: +61 8 9350 1000 P: 1800 335 550 E: sales@spel.com.au</p>	<p><b>NZ OFFICE AUCKLAND</b> 100 Montgomerie Road Airport Oaks P: +64 9 276 9045 E: sales@spel.com.au</p>
<p><b>NZ OFFICE WANGANUI</b> 43 Heads Road Wanganu New Zealand P: +64 6 349 0088   E: sales@spel.com.au</p>	<p><b>NZ OFFICE WELLINGTON</b> 41 Raiha St Porirua Wellington New Zealand P: +64 4 239 6006   E: sales@spel.com.au</p>	<p><b>PHILIPPINES OFFICE METRO MANILA</b> Unit 2210 Lumiere Residences Pasig Boulevard, Pasig City P: +61 2 8705 0255 P: 1300 773 500 E: sales@spel.com.au</p>
<p><b>SINGAPORE OFFICE</b> 512 Chai Chee Lane, #06-04 Bedok Industrial Estate, Singapore 469028 P: +61 2 8705 0255 P: 1300 773 500   E: sales@spel.com.au</p>	<p><b>UK OFFICE UNITED KINGDOM</b> Lancaster Rd Shrewsbury SY1 3NQ UK P: +44 (0)1743 445200   E: sales@spel.com.au</p>	<p><b>USA OFFICE CLEVELAND</b> 4548 Industrial Parkway Cleveland, Ohio 44135 P: +61 2 8705 0255 P: 1300 773 500 E: sales@spel.com.au</p>

We believe clean water is a right not a privilege and we work to ensure a joy in water experience for you with your children and grandchildren.



**spelstormwater**  
joy in water

100 Silverwater Rd, Silverwater NSW 2128 Australia

Phone: (02) 8705 0255

Email: sales@spel.com.au

[spel.com.au](http://spel.com.au)

SPEL Stormwater accepts no responsibility for any loss or damage resulting from any person acting on this information. The details and dimensions contained in this document may change, please check with SPEL Stormwater for confirmation of current specifications.